







# CATADIOPTRIC SYSTEM AND EXPOSURE SYSTEM PROVIDED WITH THE SYSTEM

**Patent number:** WO02103431  
**Publication date:** 2002-12-27  
**Inventor:** TAKAHASHI TOMOWAKI (JP)  
**Applicant:** NIPPON KOGAKU KK (JP); TAKAHASHI TOMOWAKI (JP)  
**Classification:**  
- international: G02B17/08; H01L21/027  
- european: G02B17/08; G03F7/20T16  
**Application number:** WO2002JP05259 20020530  
**Priority number(s):** JP20010179579 20010614

**Also published as:**

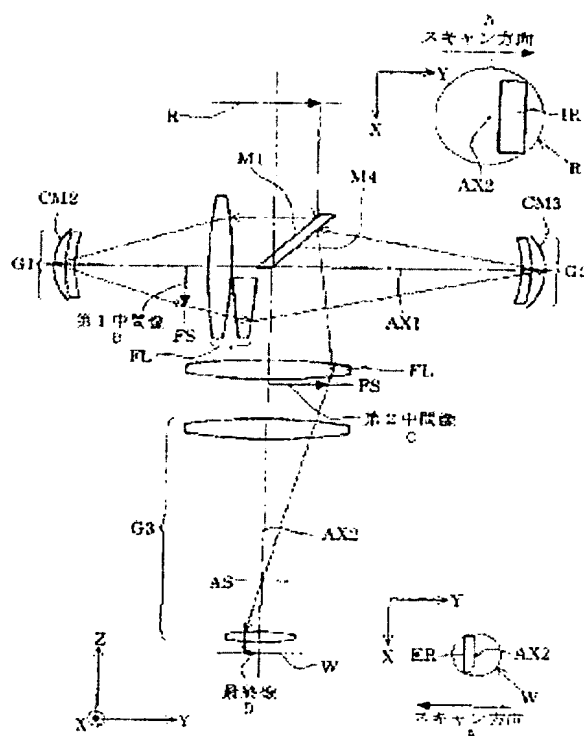
 JP2002372668 (A)

**Cited documents:**

 JP8021955  
 JP7072393  
 JP7013070  
 JP6242379  
 JP8062502  
more >>

## Abstract of WO02103431

A catadioptric system comprising a first image forming optical system <math>\{G1\}</math> having a concave reflection mirror <math>\{CM2\}</math> and a plane reflection mirror <math>\{M1\}</math> and used to form the first intermediate image of a first plane <math>\{R\}</math> based on light from the first plane; a second image forming optical system <math>\{G2\}</math> having a concave reflection mirror <math>\{CM3\}</math> and a plane reflection mirror <math>\{M4\}</math> and used to form the second intermediate image of the first plane based on light via the first image forming optical system; and a third refractive type image forming optical system <math>\{G3\}</math> for forming the final image of the first plane on a second plane <math>\{W\}</math> based on light via the second image forming optical system;



A...SCANNING DIRECTION  
B...FIRST INTERMEDIATE IMAGE  
C...SECOND INTERMEDIATE IMAGE  
D...FINAL IMAGE

Data supplied from the esp@cenet database - Worldwide